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University

of

Michigan

Historical and Statistical

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THE

University of Michigan

ANN ARBOR, MICHIGAN.

FOUNDED IN 1837.

JAMES H. WADE,
SECRETARY.

JAMES B. ANGELL, LL. D.,
PRESIDENT.

The Public School System of Michigan.

The Common Schools.

The High Schools.

The University, . . Ann Arbor, 1837

- Department of Literature, Science, and the Arts.
- Department of Medicine and Surgery.
- Department of Law.
- School of Pharmacy.
- Homœopathic Medical College.
- College of Dental Surgery.

The State Normal School, . Ypsilanti, 1852

The State Agricultural College, Lansing, 1855

The Mining School, . . Houghton, 1885

Schools for Special Classes:

- School for the Deaf, . . Flint, 1854
- School for Dependent Children, Coldwater, 1874
- School for the Blind, . Lansing, 1880

Reformatory Schools:

- Industrial School for Boys, Lansing, 1856
- Industrial Home for Girls, Adrian, 1881

Hon. Henry R. Pattengill,
Superintendent of Public Instruction.

University of Michigan.

BRIEF HISTORY.

Territory of Michigan organized by Congress, and one Township of Land given for a University,	1805
Grant Annulled and two Townships given,	1826
Organization of first Board of Regents, June,	1837
University Lands put on the market,	1837
Legislative Grant of $100,000,	1838
First Class entered,	1841
First Class graduated,	1845
Department of Medicine and Surgery organized,	1850
Dr. Tappan appointed first President,	1852
Board of Regents made elective by the new State Constitution,	1852
Department of Law organized,	1859
School of Pharmacy organized,	1868
Women Admitted (discussion begun, 1858),	1870
Legislative Appropriation of 1-20 mill tax annually,	1873
Homœopathic Medical College organized,	1875
College of Dental Surgery organized,	1875
Legislative Appropriation of 1-6 mill tax annually,	1893

University of Michigan.

LIST OF PRESIDENTS.

Henry Philip Tappan, D. D., LL. D.,	1852–1863
Erastus Otis Haven, D. D., LL. D.,	1863–1869
Henry Simmons Frieze, LL. D., (Acting President), 1869–1871,	1880–1882
James Burrill Angell, LL. D.,	1871–

ORDINARY ANNUAL INCOME.

From University Fund,	$ 38,000
From One-Sixth Mill Tax,	188,000
From Students' Fees, and other sources,	144,000
	$370,000

EXPENDITURES FOR BUILDINGS SINCE 1887.

About	$350,000

OFFICERS OF INSTRUCTION AND GOVERNMENT, 1892-93.

Professors,	56
Assistant Professors and Lecturers,	30
Instructors and Demonstrators,	38
Assistants,	41
	165

University of Michigan.

TOTAL NUMBER OF DEGREES CONFERRED TO DECEMBER 31, 1892.

Department of Literature, Science, and the Arts:		
Ordinary Degrees,	2870	
Higher Degrees in Course,	482	
Higher Degrees on Examination,	193	3,545
Department of Medicine and Surgery:		
Degree of Doctor of Medicine,		2,894
Department of Law:		
Degree of Bachelor of Laws,	4484	
Degree of Master of Laws,	41	4,525
School of Pharmacy:		
Degree of Pharmaceutical Chemist,	637	
Degree of Master of Pharmacy,	3	640
Homœopathic Medical College:		
Degree of Doctor of Medicine,		282
College of Dental Surgery:		
Degree of Doctor of Dental Surgery,		465
Honorary Degrees,		98
		12,449
Deduct for cases where more than one degree has been conferred upon the same person,		1,075
Total number of persons receiving degrees,		11,374

University of Michigan.

SUMMARY OF STUDENTS IN ATTENDANCE, 1892-93.

Department of Literature, Science, and the Arts.		
Graduate Students,	116	
Undergraduates,	1,375	1,491
Department of Medicine and Surgery.		
Graduate Students,	3	
Undergraduates,	342	345
Department of Law.		
Graduate Students,	24	
Undergraduates,	616	640
School of Pharmacy.		
Graduate Students,	2	
Undergraduates,	80	82
Homœopathic Medical College.		
Graduate Student,	1	
Undergraduates,	62	63
College of Dental Surgery.		
Graduate Students,	7	
Undergraduates,	182	189
		2,810
Deduct for names counted more than once,		30
Total,		2,780

University of Michigan.

DEGREES CONFERRED UPON WOMEN, 1871-92.

WOMEN FIRST ADMITTED TO THE UNIVERSITY IN 1870.

Bachelor of Arts, Philosophy, Science, or Letters,	367
Master of Arts, Philosophy, Science, or Letters,	45
Doctor of Philosophy, on examination,	5
Doctor of Medicine, Department of Medicine and Surgery,	287
Bachelor of Laws,	28
Pharmaceutical Chemist,	21
Doctor of Medicine, Homœopathic Medical College,	73
Doctor of Dental Surgery,	26
Honorary,	2
	854

WOMEN IN ATTENDANCE IN 1892-93.

Department of Literature, Science, and the Arts,	514
Department of Medicine and Surgery,	71
Department of Law,	2
School of Pharmacy,	6
Homœopathic Medical College,	14
College of Dental Surgery,	7
	614

University of Michigan.

Libraries: 84,000 Volumes; 16,000 Pamphlets.

Museums: Of Natural History, Chinese Civilization, Chemistry and Pharmacognosy, Archæology and Ethnology, Fine Arts and History, Anatomy and Pathology, and Collections illustrating Industrial Arts.

Observatory: 13-inch Equatorial; 6½-inch Meridian Circle. A separate Observatory for Students.

Laboratories, with number of Students provided for at one time:

Chemical (including those of Metallurgical Chemistry, Pharmacy, and Physiological Chemistry),	380
Physical,	125
Mechanical,	80
Geological,	30
Zoölogical and Biological,	50
Botanical and Biological,	60
Histological,	35
Physiological,	15
Anatomical,	160
Bacteriological,	40
Hygienic,	12
Pathological,	28
Electrotherapeutic,	30
Dental,	276

The branches of Clinical Medicine.

Gymnasium: A new, spacious building, nearly completed.

Hospitals: Surgical, Medical, Gynæcological, Ophthalmological, Neurological.

University of Michigan.

DEPARTMENT OF LITERATURE, SCIENCE, AND THE ARTS.

OPENED IN 1841.

Requirements for Admission to the Undergraduate Courses.

To Course Leading to Degree of Bachelor of Arts.

Greek (two years); Latin (four years); Algebra; Plane, Solid, and Spherical Geometry; English and Rhetoric; General and United States History; Physics (one year); Botany.

To Course Leading to Degree of Bachelor of Philosophy.

The same as for the Degree of Bachelor of Arts, except that, in place of Greek and Grecian History, two years of French or German are required.

To Courses Leading to Degree of Bachelor of Science, in General Science, in Chemistry, and in Biology.

Latin, French, and German, two of these languages, two years of study in each; Algebra; Plane, Solid, and Spherical Geometry; English and Rhetoric; General and United States History; Physics; Botany; and two of the following Sciences:

Chemistry, Geology, Zoölogy, Physiology, Physical Geography, Astronomy.

To Courses Leading to Degree of Bachelor of Science, in Engineering.

Algebra; Plane, Solid, and Spherical Geometry; Plane Trigonometry; English History; Physics; and two of the optional Sciences named above. In 1895, and thereafter, one of the three languages, Latin, French, or German, will be required in addition.

To Course Leading to Degree of Bachelor of Letters.

Algebra; Plane, Solid, and Spherical Geometry; English Language and Literature; General, United States, and English History; Civil Government; Physics; Botany; and three of the optional Sciences named above. In place of English History and the optional Sciences, applicants may present two years of Latin, of French, or of German.

For Further Details consult the University Calendar.

MARTIN L. D'OOGE, LL.D., Dean.

University of Michigan.

DEPARTMENT OF LITERATURE, SCIENCE, AND THE ARTS.

Subjects of Instruction, 1892-93.

Studies	No. of Courses	Average No. Hours per week	Studies	No. of Courses	Average No. Hours per week
Greek	21	24	Mathematics	26	32
Latin	20	30	Physics	14	17
Sanskrit	4	8	Gen'l Chemistry	14	22
Semitic Languages	2	1	Analytical and Organic Chemistry	29	50
Hebrew	7	7	Hygiene and Physiological Chemistry	8	23
Assyrian	2	2	Astronomy	10	14
Arabic	2	2	Mineralogy	2	4
French	29	34	Geology	8	10
Italian	4	3	Biology	2	5
Spanish	2	2	Zoölogy	23	40
German	37	39	Botany	10	15
Gothic	1	1	*Anatomy	4	8
Swedish	2	1	Histology	2	3
Danish-Norwegian	2	1	Physiology	4	6
English and Rhetoric	23	21	Drawing	11	10
History	22	24	Surveying	6	10
Philosophy	29	31	Civil Engineering	10	11
Science of Teaching	7	11	Mechanical Engineering	18	18
Political Economy	20	22	Marine Engineering	3	3
International Law	2	2	Mining Engineering	2	4
Music	16	16	Metallurgy	1	2
Bibliography	1	1			

*Open to Candidates for both B.S. and M.D.

University of Michigan.

DEPARTMENT OF LITERATURE, SCIENCE, AND THE ARTS.

Courses in Engineering.

CIVIL, organized in 1858;
MINING, in 1875;
MECHANICAL, in 1881;
ELECTRICAL, in 1887.

Ten Special Professors and Teachers with technical experience.

COURSE: Four years of nine months each.

Lectures, Recitations, Laboratory, Drawing, Shop Work, Field Work.

SUBJECTS TAUGHT: English and Modern Languages, Mathematics, Descriptive Geometry, Graphics, Designing, Strength of Materials, Physics, Chemistry, Geology, Thermodynamics, Electricity, Water Supply, Water Power, Machinery, Surveying, Mining, Steam and Marine Engineering, Dynamos and Batteries, Construction.

Number of Students in 1892-93, 289.

University of Michigan.

DEPARTMENT OF LITERATURE, SCIENCE, AND THE ARTS.

Professional Study of Chemistry.

COURSE: Four years of nine months each.

Instruction in Modern Languages, Mathematics, Physics, Mineralogy, Geology, General Chemistry, Analytical and Organic Chemistry, Manufacturing and Applied Chemistry.

DEGREE CONFERRED: Bachelor of Science in Chemistry.

Special Course in Biology.

Four years' Course leading to the Degree of Bachelor of Science in Biology.

The Science and the Art of Teaching.

Students who complete the specified requirements are entitled to a Teacher's Diploma.

University of Michigan.

DEPARTMENT OF LITERATURE, SCIENCE, AND THE ARTS.

The Graduate School.

REQUIREMENTS FOR ADMISSION:

Completion of an Undergraduate Course equivalent to one of those offered at the University of Michigan.

REQUIREMENTS FOR A MASTER'S DEGREE:

At least one year of residence. The passing of an examination upon a prescribed line of work in one major and two minor studies.

REQUIREMENTS FOR A DOCTOR'S DEGREE:

Two years or more of graduate study. Special proficiency in one subject, and good attainments in two others, to be shown by examination. A printed dissertation containing a contribution to science and evincing the power of independent research.

Good Library and Laboratory facilities.

Advanced courses in all departments. Special courses for graduates in several.

Fees very moderate, being the same as for undergraduates.

Number of resident graduates in 1892-93, 71.

University of Michigan.

DEPARTMENT OF MEDICINE AND SURGERY.

ORGANIZED IN 1850. INSTRUCTORS IN 1892-3, 44.

Admission.

By Diploma from approved High School, or its equivalent. One year of Latin is required.

Course.

Four collegiate years of nine months each.

Subjects of Instruction.

LECTURE COURSES—First Year: Osteology, Descriptive Anatomy, General Chemistry, Bacteriology, Physics, Organic Chemistry, Histology. Second Year: Anatomy, Physiology Hygiene, Embryology, Physiological Chemistry. Third Year: Theory and Practice, Surgery, Obstetrics, Gynæcology, Materia Medica and Therapeutics, Pathological Histology, Nervous Diseases. Fourth Year: Theory and Practice, Surgery, Gynæcology, Nervous Diseases, Dermatology, Syphilography, Ophthalmology, Otology, Laryngology, Pathology, Pediatrics, Medical Jurisprudence.

LABORATORY COURSES—First Year: Anatomy, Chemistry, Bacteriology. Second Year: Anatomy, Physiological Chemistry, Histology, Electrotherapeutics.

DEMONSTRATION COURSES: Pathology, Physical Diagnosis, Nervous Diseases, Operative and Minor Surgery, Obstetrics and Gynæcology, Ophthalmology, Otology, Laryngology.

CLINICAL COURSES: Internal Medicine, Surgery, Ophthalmology, Otology, Laryngology, Pediatrics, Nervous Diseases, Gynæcology, Dermatology, Syphilography, Obstetrics.

THE UNIVERSITY HOSPITAL affords ample material for clinical instruction.

VICTOR C. VAUGHAN, M.D., Ph.D., Dean.

University of Michigan.

DEPARTMENT OF LAW.

ORGANIZED IN 1859

PROFESSORS: Three resident and three non-resident Professors; one resident Instructor; six resident Special Lecturers and eight non-resident Special Lecturers.

LIBRARY: Ten thousand three hundred and ninety volumes.

ADMISSION: Written examination on English branches.

COURSES: Two years of nine months each, and a Post-Graduate Course of one year.

Junior Year.

LECTURE COURSES: Contracts, Agency, Partnership, Bailments, Carriers, Personal Property, Sales, Torts, Domestic Relations, Fixtures and Easements, Common Law Pleading and Practice, Equity Pleading and Practice.

TEXT-BOOK INSTRUCTION: Blackstone's Commentaries; Contracts, Pleading, Bills and Notes.

Senior Year.

LECTURE COURSES: Jurisprudence of the United States, Evidence, Real Property, Landlord and Tenant, Equity-Jurisprudence, Criminal Law, Wills, Administration of Estates, Private Corporations, Constitutional Law.

TEXT-BOOK INSTRUCTION: Code Pleading, Equity Pleading, Criminal Pleading. Practice taught in Moot Courts.

Instruction in Post-Graduate Course.

LECTURE COURSES: International Law, Treaties, Railways, Comparative Constitutional Law, Interstate Commerce, Admiralty Law, Insurance, Medical Jurisprudence, Code Pleading, Injunctions and Receivers, Mining Law, Patent Law, History of the Common Law.

TEXT-BOOK INSTRUCTION: History of Real Property, Science of Jurisprudence, Constitutional Law, Extraordinary Remedies.

JEROME C. KNOWLTON, A. B., Dean.

University of Michigan.

SCHOOL OF PHARMACY.

ORGANIZED IN 1868.

Required for Admission:

English, Latin or German, Arithmetic, Algebra, Physics, Botany.

Course:

Two years of nine months each, with a graduate year for a higher degree.

Required for Graduation:

Lecture Courses on Pharmacy, General Chemistry, Pharmaceutical Botany, Pharmacognosy, Qualitative Analysis, Quantitative Analysis, Organic Chemistry, Manufacturing Pharmacy, Crystallography, Organic Analysis, Materia Medica.

Laboratory Courses in Qualitative, Quantitative, and Organic Analysis, Pharmaceutical Preparations, Microscopical Botany, Pharmacognosy, Prescriptions, Research for the Thesis.

Literary Work in Chemical and Pharmaceutical Literature, and in Bibliography for the Thesis.

Degrees Granted:

(1) Pharmaceutical Chemist; (2) Master of Pharmacy.

Graduates:

Six hundred and thirty-seven. These have been engaged in the following named pursuits: Dispensing Pharmacy, Analytical Chemistry, Manufacturing Chemistry, College Teaching, Study and Practice of Medicine. A Register of the Alumni is revised annually, and gives the professional position of each graduate.

ALBERT B. PRESCOTT, Ph.D., M.D., Dean.

University of Michigan.

HOMŒOPATHIC MEDICAL COLLEGE.

ORGANIZED IN 1875.

Admission:

By Diploma approved by Literary Department of the University of Michigan, or written examination in English, Mathematics, Physics, Botany, Zoölogy, Physiology, History, Latin.

Course:

Four collegiate years of nine months each.

Subjects of Instruction:

Materia Medica, Pharmacology, Surgery, Theory and Practice, Ophthalmology, Otology, Laryngology, Obstetrics, Gynæcology and Pædology, Mental Diseases.

Clinical Lectures are delivered in the new Homœopathic Hospital, on Surgery, Therapeutics, Ophthalmology, Otology, Obstetrics, Gynæcology, Diseases of Children.

Instruction given in the Department of Medicine and Surgery: Anatomy, Physiology, General Chemistry, Organic Chemistry, Applied Chemistry, Physiological Chemistry, Pathology, Hygiene. Laboratory Courses in Anatomy and Chemistry. Instruction in Literary Department in Botany and Zoölogy. Instruction in Law Department in Medical Jurisprudence.

HENRY L. OBETZ, M.D., Dean.

University of Michigan.

COLLEGE OF DENTAL SURGERY.

ORGANIZED IN 1875.

Graduates,	456
Students in 1892-93,	189
Instructors in 1892-93,	9

Admission by written examination in English, Mathematics, Physics, Botany, Zoölogy, Physiology, History, Latin.

Subjects of Instruction—Anatomy with Dissections, Chemistry (Didactic and Analytical), Histology, Bacteriology, Physiology, Materia Medica, Pathology, Prosthetic Dentistry (Didactic and Practical), Operative Dentistry (Didactic and Clinical), Oral Surgery.

Course—Three Years of nine months each.

Hours in Operating Rooms and Laboratories—1:30 to 4:00 P. M.

Conditions of Graduation—Three full years of study and attendance at the College, satisfactory mastery of the branches of the curriculum, age at least twenty-one years, a good moral character.

JONATHAN TAFT, M.D., D.D.S., Dean.

University of Michigan.

FEES AND EXPENSES.

Matriculation Fee:

For Michigan students, ten dollars.
For all others, twenty-five dollars.

Annual Fee:

In Department of Literature, Science, and the Arts:

For Michigan students, twenty dollars.
For all others, thirty dollars.

In Department of Medicine and Surgery, Department of Law, School of Pharmacy, Homœopathic Medical College, and College of Dental Surgery:

For Michigan students, twenty-five dollars.
For all others, thirty-five dollars.

Diploma Fee:

Ten dollars.

Laboratory Expenses:

Laboratory Expenses vary with the Courses pursued, and with the prudence and economy of the student.

ANN ARBOR, MICH.:
COURIER OFFICE PRINTERS AND BINDERS.
1893.